Australian Journal of Agricultural Research

Index to Volume 49

Adams NR, Briegel JR Liveweight and wool growth responses to a Mediterranean environment in three strains of Merino sheep. 1187

Agüera F, Villalobos FJ, Orgaz F, Fernandez-Martinez JM Response to divergent selection for early vigour in sunflower (*Helianthus annuus* L.). 749

Agung S, McDonald GK Effects of seed size and maturity on the growth and yield of faba bean (*Vicia faba* L.). 79

Aitken RL *See* Moody PW *et al.* 649

Aitken RL, Dickson T, Moody PW Field amelioration of acidic soils in south-east Queensland. II. Effect of amendments on the yield and leaf nutrient composition of maize. 639

Aitken RL, Moody PW, Dickson T Field amelioration of acidic soils in south-east Queensland. I. Effect of amendments on soil properties. 627

Ali A, Randles JW, Hodgson RAJ Sensitive detection of pea seed borne mosaic potyvirus by dot blot and tissue print hybridisation assays. 191

Alston AM *See* Sarmah AK *et al.* 775

Alston C *See* Felton WL *et al.* 401

Anderson GC *See* Asseng S *et al.* 363

Anderson GC, Fillery IRP, Dolling PJ, Asseng S Nitrogen and water flows under pasture–wheat and lupin–wheat rotations in deep sands in Western Australian. 1. Nitrogen fixation in legumes, net N mineralisation, and utilisation of soil-derived nitrogen. 329

Anderson GC, Fillery IRP, Dunin FX, Dolling PJ, Asseng S Nitrogen and water flows under pasture–wheat and lupin–wheat rotations in deep sands in Western Australian. 2. Drainage and nitrate leaching. 345

Angus JF *See* Peoples MB *et al.* 459. *See* van Herwaarden AF *et al.* 1067, 1083, 1095. *See* Gardner PA *et al.* 1225

Angus JF, van Herwaarden AF, Fischer RA, Howe GN, Heenan DP The source of mineral nitrogen for cereals in south-eastern Australia. 511

Armstrong RD, Probert ME, McCosker K, Millar G Fluxes of nitrogen derived from plant residues and fertiliser on a cracking clay in a semi-arid environment. 437

Arthur PF *See* Hearnshaw H *et al.* 1009

Asseng S *See* Anderson GC *et al.* 329, 345

Asseng S, Fillery IRP, Anderson GC, Dolling PJ, Dunin FX, Keating BA Use of the APSIM wheat model to predict yield, drainage, and NO_3^- leaching for a deep sand. 363

Atkins C *See* Ma Q *et al.* 811

Atkinson S *See* Ding Z *et al.* 293

Backhouse D *See* Felton WL *et al.* 401

Bahnisch LM *See* Thumma BR *et al.* 1039

Baker GH *See* Choo LPD *et al.* 1297

Balcells J *See* Pérez JF *et al.* 907

Ball FM *See* Ding Z *et al.* 293

Balnave D, Muheereza SK Intermittent lighting and dietary sodium bicarbonate supplementation for laying hens at high temperatures. 279

Balnave D, Zhang D Adverse responses in egg shell quality in late-lay resulting from short-term use of saline drinking water in early- or mid-lay. 1161

Bange MP *See* Healey D *et al.* 665

Banks PM *See* Kammholz SJ *et al.* 1253

Barry TN *See* Min BR *et al.* 597

Barton L *See* Tang C *et al.* 53

Basford KE, Cooper M Genotype×environment interactions and some considerations of their implications for wheat breeding in Australia. 153

Baston M-G Length of rhizome and depth of burial affects the regeneration of bent grass (*Agrostis castellana* Boiss. et Reuter). 1141

Batterham ES (the late) *See* Officer DI *et al.* 127

Baud S, Wade CM, Goddard ME An evaluation of the use of ultrasound scanning to predict carcass traits in steers grain fed for the Japanese market. 147

Relationships among carcass quality characteristics between and within carcass quartering sites. 285

Beatson PR *See* Benavides MV *et al.* 1195

Bell RW *See* Wei Y *et al.* 867

Benavides MV, Maher AP, Young MJ, Beatson PR, Reid TC Quantitative genetic studies on wool yellowing in Corriedale sheep. 1. Wool yellowing susceptibility and wool production traits—genetic parameter estimates. 1195

Berding N *See* Lee DJ *et al.* 915

Berger KT *See* Hunter RA *et al.* 589

Bhalla PL, Smith NA Comparison of shoot regeneration potential from seedling explants of Australian cauliflower (*Brassica oleracea* var. *botrytis*) varieties. 1261

Bielig LM *See* Lee DJ *et al.* 915

Birch CJ, Hammer GL, Rickert KG Improved methods for predicting individual leaf area and leaf senescence in maize (*Zea mays*). 249

Blackmer AM, White SE Using precision farming technologies to improve management of soil and fertiliser nitrogen. 555

Blair GJ *See* Chen W *et al.* 263

Boonchoo S, Fukai S, Hetherington SE Barley yield and grain protein concentration as affected by assimilate and nitrogen availability. 695

Borrell AL, Garside AL, Fukai S, Reid DJ Season and plant type affect the response of rice yield to nitrogen fertilisation in a semi-arid tropical environment. 179

Season, nitrogen rate, and plant type affect nitrogen uptake and nitrogen use efficiency in rice. 829

Boyce JM *See* King RH *et al.* 883

Boyce MD *See* Thorniley GR *et al.* 899

Brennan JP, Fox PN Impact of CIMMYT varieties on the genetic diversity of wheat in Australia, 1973–1993. 175

Briegel JR *See* Adams NR *et al.* 1187

Brockwell J *See* Hebb DM *et al.* 923

Brown GH *See* Faichney GJ *et al.* 107

Burgess LW *See* Felton WL *et al.* 401

Burke JL, Morris ST, McCutcheon SN, Parker WJ Compudose®: its effects on the growth, offspring performance, lactational performance, and carcass characteristics of Hereford×Friesian heifers at pasture. 1167

Caligari PDS *See* Hardy A *et al.* 1241

Cameron DF *See* Thumma BR *et al.* 1039

Campbell RG *See* Dunshea FR *et al.* 565

Carberry PS *See* Probert ME *et al.* 317

Cayley JWD, Hannah MC, Kearney GA, Clark SG Effects of phosphorus fertiliser and rate of stocking on the seasonal

pasture production of perennial ryegrass–subterranean clover pasture. 233
Chalk PM Dynamics of biologically-fixed N in legume–cereal rotations: a review. 303
Chen W, Lefroy RDB, Scott JM, Blair GJ Field variations in alkane signatures among plant species in 'degraded' and perennial pastures on the Northern Tablelands of New South Wales. 263
Choo LPD, Baker GH Influence of four commonly used pesticides on the survival, growth, and reproduction of the earthworm *Aporrectodea trapezoides* (Lumbricidae). 1297
Clark K *See* Penrose LDJ *et al.* 853
Clark SG *See* Cayley JWD *et al.* 233
Cocks PS *See* Dear BS *et al.* 41. *See* Revell CK *et al.* 673. *See* Smith FP *et al.* 961, 965. *See* Norman HC *et al.* 973
Collins DP *See* Dear BS *et al.* 41. *See* Heenan DP *et al.* 487
Connor DJ *See* O'Leary GJ *et al.* 11
Conroy JP *See* Montagu KD *et al.* 89
Cooper M *See* Basford KE *et al.* 153. *See* Kamoshita A *et al.* 737, 1267, 1277
Cowcher PC *See* Thorniley GR *et al.* 899
Crabtree WL, Robson AD, Ritchie GSP Drying of surface soil decreased *Lupinus angustifolius* root length and manganese uptake in a split-root experiment. 1119
Crombie A *See* Loss SP *et al.* 999
D'Souza DN, Warner RD, Dunshea FR, Leury BJ Effect of on-farm and pre-slaughter handling of pigs on meat quality. 1021
De Haro A *See* Velasco L *et al.* 59
Dear BS *See* Peoples MB *et al.* 459
Dear BS, Cocks PS, Wolfe EC, Collins DP Established perennial grasses reduce the growth of emerging subterranean clover seedlings through competition for water, light, and nutrients. 41
Dickson T *See* Aitken RL *et al.* 627, 639. *See* Moody PW *et al.* 649
Diggle AJ *See* Trenbath BR *et al.* 537
Ding Z, Rowe JB, Godwin IR, Xu Y, Ball FM, Atkinson S No lactic acid absorbed from the caecum and rumen of sheep. 293
Dollin AE *See* Nagorcka BN *et al.* 113
Dolling PJ *See* Anderson GC *et al.* 329, 345. *See* Asseng S *et al.* 363
Doyle PT *See* Peterson AD *et al.* 1181
Dracup MN, Reader MA, Palta JA Variation in yield of narrow-leafed lupin caused by terminal drought. 799
Dracup MN, Thomson R, Reader MA, Kirby EJM, Shield I, Leach J Daylength responses, flowering time, and seed filling in lupins. 1047
Dunin FX *See* Anderson GC *et al.* 345. *See* Asseng S *et al.* 363. *See* Smith CJ *et al.* 379
Dunshea FR *See* King RH *et al.* 883. *See* D'Souza DN *et al.* 1021
Dunshea FR, King RH, Eason PJ, Campbell RG Interrelationships between dietary ractopamine, energy intake, and sex in pigs. 565
Dunshea FR, Leury BJ, King RH Lipolytic responses to catecholamines in ractopamine-treated pigs. 875
Dunshea FR, Leury BJ, Tilbrook AJ, King RH Ractopamine increases glucose turnover without affecting lipogenesis in the pig. 1147
Eady SJ, Woolaston RR, Lewer RP, Raadsma HW, Swan AA, Ponzoni RW Resistance to nematode parasites in Merino sheep: correlation with production traits. 1201
Eagles HA *See* Panozzo JF *et al.* 757
Eason PJ *See* Dunshea FR *et al.* 565
Edwards J, Parbery DG, Halloran GM, Taylor PA Assessment of infection and sporulation processes of *Puccinia menthae* on peppermint in controlled conditions. 1125
Evans J, Heenan DP Simplified methods for assessing quantities of N_2 fixed by *Lupinus augustifolius* L. and its benefits to soil nitrogen status. 419
Ewing MA *See* Thomson CJ *et al.* 225. *See* Smith FP *et al.* 961, 965.
Faichney GJ, Welch RJ, Brown GH Feed intake, digestion, and renal function in Merino sheep selected for higher clean fleece weight. 107
Fang RY *See* Tang C *et al.* 657
Farquhar GD *See* van Herwaarden AF *et al.* 1067, 1083, 1095
Farrell DJ *See* Officer DI *et al.* 127
Felton WL *See* Marcellos H *et al.* 391. *See* Herridge DF *et al.* 409
Felton WL, Marcellos H, Alston C, Martin RJ, Backhouse D, Burgess LW, Herridge DF Chickpea in wheat-based cropping systems of northern New South Wales. II. Influence on biomass, grain yield, and crown rot in the following wheat crop. 401
Fernandez-Martinez JM *See* Agüera F *et al.* 749
Fillery IRP *See* Anderson GC *et al.* 329, 345. *See* Asseng S *et al.* 363. *See* McNeill AM *et al.* 427. *See* Thompson RB *et al.* 495. *See* Murphy DV *et al.* 523
Fischer RA *See* Angus JF *et al.* 511
Foale MA *See* Utzurrum SB (Jr) *et al.* 687
Fondevila M *See* Pérez JF *et al.* 907
Fox PN *See* Brennan JP 175
Francis GS *See* Montagu KD *et al.* 89
Fukai S *See* Borrell AL *et al.* 179, 829. *See* Utzurrum SB (Jr) *et al.* 687. *See* Boonchoo S *et al.* 695. *See* Kamoshita A *et al.* 737, 1267, 1277
Ganeshamurthy AN An evaluation of sulfur efficiency parameters in soybean and wheat cropping systems in relation to fertiliser sulfur on a Typic Haplustert. 33
Gardener CJ (the late) *See* McIvor JG *et al.* 1027
Gardner GE, Pethick DW, Smith G Effect of Chromium Chelavite supplementation on the metabolism of glycogen and lipid in adult Merino sheep. 137
Gardner PA, Angus JF, Pitson GD, Wong PTW A comparison of six methods to control take-all in wheat. 1225
Garside AL *See* Borrell AK *et al.* 179, 829
Gault RR *See* Peoples MB *et al.* 459
Ghahramani F, Scott KJ The action of ethanol in controlling superficial scald of apples. 199
Oxygen stress of Granny Smith apples in relation to superficial scald, ethanol, α-farnesene, and conjugated trienes. 207
Gherardi SG *See* Peterson AD *et al.* 1181
Glennie-Holmes M *See* Zhou MX *et al.* 845
Goddard ME *See* Baud S *et al.* 147, 285
Godwin IR *See* Ding Z *et al.* 293
Grams RA *See* Kammholz SJ *et al.* 1253
Gregory PJ Alternative crops for duplex soils: growth and water use of some cereal, legume, and oilseed crops, and pastures. 21
Guada JA *See* Pérez JF *et al.* 907
Halloran GM *See* Edwards J *et al.* 1125
Hammer GL *See* Birch CJ *et al.* 249. *See* Healey KD *et al.* 665
Hannah MC *See* Cayley JWD *et al.* 233
Hardy A, Huyghe C, Rahim MA, Roemer P, Neves-Martins JM, Sawicka-Sienkiewicz E, Caligari PDS Effects of genotype

and environment on architectural and structural characteristics of indeterminate Andean lupins (*Lupinus mutabilis* Sweet). 1241
Harris HC *See* Pilbeam CJ *et al.* 451. *See* McNeill AM *et al.* 821
Healey KD, Rickert KG, Hammer GL, Bange MP Radiation use efficiency increases when the diffuse component of incident radiation is enhanced under shade. 665
Hearnshaw H, Arthur PF, Shorthose WR, Sinclair AJ, Johnston D, Stephenson PD Evaluation of Angus, Charolais, and Hereford as terminal sire breeds on Hereford and first-cross cows. III. Meat quality of progeny. 1009
Hebb DM, Richardson AE, Reid R, Brockwell J PCR as an ecological tool to determine the establishment and persistence of *Rhizobium* strains introduced into the field as seed inoculant. 923
Heenan DP *See* Evans J *et al.* 419. *See* Angus JF *et al.* 511
Heenan DP, McGhie WJ, Collins D Impact of lupins, grazed or ungrazed subterranean clover, stubble retention, and lime on soil nitrogen supply and wheat nitrogen uptake, grain yields, and grain protein. 487
Helliwell S *See* Zhou MX *et al.* 845
Henzell RG *See* Tao YZ *et al.* 729
Herridge DF *See* Marcellos H *et al.* 391. *See* Felton W L *et al.* 401
Herridge DF, Marcellos H, Felton WL, Turner GL, Peoples MB Chickpea in wheat-based cropping systems of northern New South Wales. III. Prediction of N_2 fixation and N balance using soil nitrate at sowing and chickpea yield. 409
van Herwaarden AF *See* Angus JF *et al.* 511
van Herwaarden AF, Farquhar GD, Angus JF, Richards RA, Howe GN 'Haying-off', the negative grain yield response of dryland wheat to nitrogen fertiliser. I. Biomass, grain yield, and water use. 1067
van Herwaarden AF, Richards RA, Farquhar GD, Angus JF 'Haying-off', the negative grain yield response of dryland wheat to nitrogen fertiliser. II. Carbohydrate and protein dynamics. 1083
III. The influence of water stress and heat shock. 1095
Hetherington SE *See* Boonchoo S *et al.* 695
Hodgson RAJ *See* Ali A *et al.* 191
Hodgson J *See* Li GD *et al.* 69
Holroyd RG *See* Klieve AV *et al.* 1153
Howe GN *See* Angus JF *et al.* 511. *See* van Herwaarden AF *et al.* 1067
Huang L *See* Wei Y *et al.* 867
Hunter RA, Magner T, Berger KT Sustained growth promotion of steers, using anabolic steroids. 589
Huyghe C *See* Hardy A *et al.* 1241
Hyder M *See* Unkovich MJ *et al.* 475
Hynd PI *See* Thompson AN *et al.* 889, 1173
Irwin JAG *See* Mackie JM *et al.* 713
Jackes BR *See* Lee DJ *et al.* 915
Jenner CF *See* Wallwork MAB *et al.* 1287
Jettner RL *See* Siddique KHM *et al.* 613. *See* Loss SP *et al.* 989
Johnston D *See* Hearnshaw H *et al.* 1009
Johnstone GR *See* Norton MR *et al.* 723
Jordaan GG *See* Schoeman SJ *et al.* 607
Jordan DR *See* Tao YZ *et al.* 729
Kammholz SJ, Grams RA, Banks PM, Sutherland MW Segregation of glutenins in wheat × maize-derived doubled haploid wheat populations. 1253
Kamoshita A, Fukai S, Muchow RC, Cooper M Genotypic variation for grain yield and grain nitrogen concentration among sorghum hybrids under different levels of nitrogen fertiliser and water supply. 737
Sorghum hybrid differences in grain yield and nitrogen concentration under low soil nitrogen availability. I. Hybrids with similar phenology. 1267
II. Hybrids with contrasting phenology. 1277
Kearney GA *See* Cayley JWD *et al.* 233
Keating BA *See* Asseng S *et al.* 363
Kelly KB *See* Lawson AR *et al.* 983
Kelly RW *See* McNeill DM *et al.* 575
Kemp PD *See* Li GD *et al.* 69. *See* Min BR *et al.* 597
King RH *See* Dunshea FR *et al.* 565, 875, 1147
King RH, Boyce JM, Dunshea FR Effect of supplemental nutrients on the growth performance of sucking pig. 883
Kirby EJM *See* Dracup MN *et al.* 1047
Klieve AV, Holroyd RG, Turner AF, Lindsay JA Rumen bacterial and protozoal populations in cattle being relocated in tropical Queensland. 1153
Kookana RS *See* Sarmah AK *et al.* 775
Langdon PW *See* Smith MK *et al.* 1133
Lawson AR, Kelly KB, Sale PWG Defoliation frequency and genotype effects on stolon and root reserves in white clover. 983
Le Coultre IF *See* Thomson CJ *et al.* 225
Leach J *See* Dracup MN *et al.* 1047
Lee DJ, Berding N, Jackes BR, Bielig LM Isozyme markers in *Saccharum* spp. hybrids and *Erianthus arundinaceus* (Retz.) Jeswiet. 915
Lefroy RDB *See* Chen W *et al.* 263
Leury BJ *See* Dunshea FR *et al.* 875, 1147. *See* D'Souza DN *et al.* 1021
Lewer RP *See* Eady SJ *et al.* 1201
Li GD, Kemp PD, Hodgson J Morphological development of forage chicory under defoliation in the field and glasshouse. 69
Lindsay DR *See* McNeill DM *et al.* 581
Lindsay JA *See* Klieve AV *et al.* 1153
Liu SM *See* Masters DG *et al.* 269
Logue SJ *See* Wallwork MAB *et al.* 1287
Longnecker N *See* Ma Q *et al.* 811
Loss SP *See* Siddique KHM *et al.* 613, 1057
Loss SP, Siddique KHM, Jettner R, Martin LD Responses of faba bean (*Vicia faba* L.) to sowing rate in south-western Australia. I. Seed yield and economic optimum plant density. 989
Loss SP, Siddique KHM, Martin LD, Crombie A Responses of faba bean (*Vicia faba* L.) to sowing rate in south-western Australia. II. Canopy development, radiation absorption, and dry matter partitioning. 999
Ludwig C *See* Palta JA *et al.* 63
Lyons TJ *See* Stephens DJ *et al.* 211, 1111
Ma Q, Longnecker N, Atkins C Growth and yield in *Lupinus angustifolius* are depressed by early transient nitrogen deficiency. 811
MacLeod LC *See* Wallwork MAB *et al.* 1287
Mackie JM, Irwin JAG Genetics and race variability of the lucerne–*Colletotrichum trifolii* pathosystem in Australia. 713
Magner T *See* Hunter RA *et al.* 589
Maher AP *See* Benavides MV *et al.* 1195
Marcellos H *See* Felton WL *et al.* 401. *See* Herridge DF *et al.* 409
Marcellos H, Felton WL, Herridge DF Chickpea in wheat-based cropping systems of northern New South Wales. I. N_2 fixation and influence on soil nitrate and water. 391

Martin LD *See* Loss SP *et al.* 989, 999
Martin LM *See* Velasco L *et al.* 59
Martin RJ *See* Felton WL *et al.* 401
Masters DG, Mata G, Liu SM, Peterson AD Influence of liveweight, liveweight change, and diet on wool growth, staple strength, and fibre diameter in young sheep. 269
Mata G *See* Masters DG *et al.* 269
McCosker K *See* Armstrong RD *et al.* 437
McCown RL *See* Probert ME *et al.* 317
McCutcheon SN *See* Burke JL *et al.* 1167
McDonald GK *See* Agung S *et al.* 79
McGhie WJ *See* Heenan DP *et al.* 487
McIntyre CL *See* Tao YZ *et al.* 729
McIvor JG, Gardener CJ (the late) Population dynamics of *Stylosanthes hamata* and *S. scabra* in north-eastern Queensland: effects of superphosphate application, timber treatment, and stocking rate. 1027
McKenzie FR Influence of applied nitrogen on vegetative, reproductive, and aerial tiller densities in *Lolium perenne* L. during the establishment year. 707
McNabb WC *See* Min BR *et al.* 597
McNeill AM, Pilbeam CJ, Harris HC, Swift RS Use of residual fertiliser ^{15}N in soil for isotope dilution estimates of N_2 fixation by grain legumes. 821
McNeill AM, Zhu C, Fillery IRP A new approach to quantifying the N benefit from pasture legumes to succeeding wheat. 427
McNeill DM, Kelly RW, Williams IH Partition of nutrients in moderately fat compared with lean ewes given *ad libitum* access to feed in late pregnancy. 575
McNeill DM, Murphy PM, Lindsay DR Blood lactose *v.* milk lactose as a monitor of lactogenesis and colostrum production in Merino ewes. 581
Millar G *See* Armstrong RD *et al.* 437
Min BR, Barry TN, McNabb WC, Kemp PD Effect of condensed tannins on the production of wool and on its processing characteristics in sheep grazing *Lotus corniculatus*. 597
Momtaz OA *See* Sawan ZM *et al.* 955
Montagu KD, Conroy JP, Francis GS Root and shoot response of field-grown lettuce and broccoli to a compact subsoil. 89
Moody PW *See* Aitken RL *et al.* 627, 639
Moody PW, Aitken RL, Dickson T Field amelioration of acidic soils in south-east Queensland. III. Relationships of maize yield response to lime and unamended soil properties. 649
Morris ST *See* Burke JL *et al.* 1167
Muchow RC *See* Kamoshita A *et al.* 737, 1267, 1277
Muheereza SK *See* Balnave D *et al.* 279
Murphy DV, Fillery IRP, Sparling GP Seasonal fluctuations in gross N mineralisation, ammonium consumption, and microbial biomass in a Western Australian soil under different land uses. 523
Murphy PM *See* McNeill DM *et al.* 581
Nagorcka BN, Dollin AE, Ringrose-Voase AJ Measurement of fibre density and fibre bundles in the skin of sheep from different breeds. 113
Naidu BP *See* Thumma BR *et al.* 1039
Neves-Martins JM *See* Hardy A *et al.* 1241
Norman HC, Cocks PS, Smith FP, Nutt BJ Reproductive strategies in Mediterranean annual clovers: germination and hardseededness. 973
Norton MR, Johnstone GR Occurrence of alfalfa mosaic, clover yellow vein, subterranean clover red leaf, and white clover mosaic viruses in white clover throughout Australia. 723
Nutt BJ *See* Norman HC *et al.* 973
O'Leary GJ, Connor DJ A simulation study of wheat crop response to water supply, nitrogen nutrition, stubble retention, and tillage. 11
Officer DI, Batterham ES (the late), Farrell DJ Effects on growth rate and utilisation of amino acids in weaner pigs fed diets containing whole proteins and free amino acids in combination with different energy sources. 127
Orgaz F *See* Agüera F *et al.* 749
Orifici R *See* Plummer JA *et al.* 791
Palta JA *See* Dracup MN *et al.* 799
Palta JA, Ludwig C Yield response of narrow-leafed lupin to variations in pod number. 63
Panozzo JF, Eagles HA Cultivar and environmental effects on quality characters in wheat. I. Starch. 757
Parbery DG *See* Edwards J *et al.* 1125
Parker WJ *See* Burke JL *et al.* 1167
Pate J *See* Unkovich MJ *et al.* 475
Paul J *See* Peoples MB *et al.* 459
Pegg KG *See* Smith MK *et al.* 1133
Penrose LDJ, Walsh K, Clark K Characters contributing to high yield in Currawong, an Australian winter wheat. 853
Peoples MB *See* Herridge D F *et al.* 409
Peoples MB, Gault RR, Scammell GJ, Dear BS, Virgona J, Sandral GA, Paul J, Wolfe EC, Angus JF Effect of pasture management on the contributions of fixed N to the N economy of ley-farming systems. 459
Pérez JF, Balcells J, Fondevila M, Guada JA Composition of liquid- and particle-associated bacteria and their contribution to the rumen outflow. 907
Peterson AD *See* Masters DG *et al.* 269. *See* Thompson AN *et al.* 1181
Peterson AD, Gherardi SG, Doyle PT Components of staple strength in fine and broad wool Merino hoggets run together in a Mediterranean environment. 1181
Pethick DW *See* Gardner GE *et al.* 137
Pilbeam CJ *See* McNeill AM *et al.* 821
Pilbeam CJ, Wood M, Harris HC, Tuladhar J Productivity and nitrogen use of three different wheat-based rotations in North West Syria. 451
Pitson GD *See* Gardner PA *et al.* 1225
Plummer JA, Wann JM, Orifici R, Spadek ZE Effects of photon flux density on photosynthesis, growth, flowering, and oil content in *Boronia*. 791
Plummer JA, Wann JM Plant growth regulators cannot be used to alter significantly the commercial harvest date of *Boronia heterophylla* F. Muell. (Rutaceae). 99
Ponzoni RW *See* Eady SJ *et al.* 1201
Poss R *See* Smith CJ *et al.* 379
Pritchard DL *See* Siddique KHM *et al.* 613, 1057
Probert ME *See* Armstrong RD *et al.* 437
Probert ME, Carberry PS, McCown RL, Turpin JE Simulation of legume–cereal rotations using APSIM. 317
Raadsma HW *See* Eady SJ *et al.* 1201
Rahim MA *See* Hardy A *et al.* 1241
Randles JW *See* Ali A *et al.* 191
Raphael C *See* Tang C *et al.* 53, 657
Reader MA *See* Dracup MN *et al.* 799, 1047
Regan KL *See* Siddique KHM *et al.* 613, 1057
Reid DJ *See* Borrell AL *et al.* 179, 829
Reid R *See* Hebb DM *et al.* 923
Reid TC *See* Benavides MV *et al.* 1195
Revell CK *See* Thomson CJ *et al.* 225
Revell CK, Taylor GB, Cocks PS Long-term softening of surface and buried hard seeds of yellow serradella grown in a range of environments. 673
Richards RA *See* van Herwaarden AF *et al.* 1067, 1083, 1095

Richardson AE *See* Hebb DM *et al.* 923
Rickert KG *See* Birch CJ *et al.* 249. *See* Healey KD *et al.* 665
Ringrose-Voase AJ *See* Nagorcka BN *et al.* 113
Ritchie GSP *See* Crabtree WL *et al.* 1119
Robards K *See* Zhou MX *et al.* 845
Roberts GL *See* Zhou MX *et al.* 845
Robson AD *See* Crabtree WL *et al.* 1119
Roemer P *See* Hardy A *et al.* 1241
Rowe JB *See* Thorniley GR *et al.* 899
Rowe JB *See* Ding Z *et al.* 293
Sakr RA *See* Sawan ZM *et al.* 955
Sale PWG *See* Lawson AR *et al.* 983
Sandral GA *See* Peoples MB *et al.* 459
Sanford P *See* Unkovich MJ *et al.* 475
Sarmah AK, Kookana RS, Alston AM Fate and behaviour of triasulfuron, metsulfuron-methyl, and chlorsulforun in the Australian soil environment: a review. 775
Sawan ZM, Sakr RA, Momtaz OA Effect of 1-naphthaleneacetic acid concentrations and the number of applications on the yield components, yield, and fibre properties of Egyptian cotton (*Gossypium barbadense* L.). 955
Sawicka-Sienkiewicz E *See* Hardy A *et al.* 1241
Scammell GJ *See* Peoples MB *et al.* 459
Schaffer B *See* Smith MK *et al.* 1133
Schlink AC *See* Thompson AN *et al.* 1173
Schoeman SJ, Jordaan GG Animal×testing environment interaction on postweaning liveweight gains of young bulls. 607
Scott JK, Shivas RG Impact of insects and fungi on doublegee (*Emex australis*) in the Western Australian wheatbelt. 767
Scott JM *See* Chen W *et al.* 263
Scott KJ *See* Ghahramani F *et al.* 199, 207
Searle C *See* Smith MK *et al.* 1133
Shield I *See* Dracup MN *et al.* 1047
Shivas RG *See* Scott JK *et al.* 767
Shorthose WR *See* Hearnshaw H *et al.* 1009
Siddique KHM *See* Loss SP *et al.* 989, 999
Siddique KHM, Loss SP, Pritchard DL, Regan KL, Tennant D, Jettner RL, Wilkinson D Adaptation of lentil (*Lens culinaris* Medik) to Mediterranean-type environments: effect of time of sowing on growth, yield, and water use. 613
Siddique KHM, Loss SP, Regan KL, Pritchard DL Adaptation of lentil (*Lens culinaris* Medik) to short season Mediterranean-type environments: response to sowing rates. 1057
Sinclair AJ *See* Hearnshaw H *et al.* 1009
Smith CJ, Dunin FX, Zegelin SJ, Poss R Nitrate leaching from a riverine clay soil under cereal rotation. 379
Smith FP *See* Norman HC *et al.* 973
Smith FP, Cocks PS, Ewing MA Seed production in cluster clover (*Trifolium glomeratum* L.). 1. Flowering time, abortion, seed size, and hardseededness along branches. 961
2. Effect of sowing time and sowing rate on flowering time, abortion, seed size, and hardseededness. 965
Smith G *See* Gardner GE *et al.* 137
Smith MK, Whiley AM, Searle C, Langdon PW, Schaffer B, Pegg KG Micropropagated bananas are more susceptible to fusarium wilt than plants from conventional material. 1133
Smith NA *See* Bhalla PL *et al.* 1261
Spadek ZE *See* Plummer JA *et al.* 791
Sparling GP *See* Murphy DV *et al.* 523
Stephens DJ, Lyons TJ Rainfall–yield relationships across the Australian wheatbelt. 211
Variability and trends in sowing dates across the Australian wheatbelt. 1111
Stephenson PD *See* Hearnshaw H *et al.* 1009
Sutherland MW *See* Kammholz SJ *et al.* 1253
Sutherst RW *See* Yonow T *et al.* 935
Swan AA *See* Eady SJ *et al.* 1201
Sweetingham MW *See* Yang HA *et al.* 1213
Swift RS *See* McNeill AM *et al.* 821
Tang C, Barton L, Raphael C Pasture legume species differ in their capacity to acidify soil. 53
Tang C, Fang RY, Raphael C Factors affecting soil acidification under legumes. II. Effect of phosphorus supply. 657
Tao YZ, Jordan DR, Henzell RG, McIntyre CL Construction of a genetic map in a sorghum RIL population using probes from different sources and its comparison with other sorghum maps. 729
Taylor GB *See* Revell CK *et al.* 673
Taylor PA *See* Edwards J *et al.* 1125
Tennant D *See* Siddique KHM *et al.* 613
Thompson AN, Hynd PI Wool growth and fibre diameter changes in young Merino sheep genetically different in staple strength and fed different levels of nutrition. 889
Thompson AN, Schlink AC, Peterson AD, Hynd PI Follicle abnormalities and fibre shedding in Merino weaners fed different levels of nutrition. 1173
Thompson RB, Fillery IRP Fate of urea nitrogen in sheep urine applied to soil at different times of the year in the pasture–wheat rotation in south Western Australia. 495
Thomson R *See* Dracup MN *et al.* 1047
Thomson CJ, Ewing MA, Turner NC, Revell CK, Le Coultre IF Influence of rotation and time of germinating rains on the productivity and composition of annual pastures in Western Australia. 225
Thorniley GR, Rowe JB, Cowcher PC, Boyce MD A single drench of virginiamycin to increase safety of feeding grain to sheep. 899
Thumma BR, Naidu BP, Cameron DF, Bahnisch LM Transpiration efficiency and its relationship with carbon isotope discrimination under well-watered and water-stressed conditions in *Stylosanthes scabra*. 1039
Tilbrook AJ *See* Dunshea FR *et al.* 1147
Trenbath BR, Diggle AJ An interpretative model of carbon and nitrogen transformations applied to a residue incubation experiment. 537
Tuladhar J *See* Pilbeam CJ *et al.* 451
Turner AF *See* Klieve AV *et al.* 1153
Turner GL *See* Herridge DF *et al.* 409
Turner NC *See* Thomson CJ *et al.* 225
Turpin JE *See* Probert ME *et al.* 317
Unkovich MJ, Sanford P, Pate J, Hyder M Effects of grazing on plant and soil nitrogen relations of pasture–crop rotations. 475
Utzurrum SB (Jr), Fukai S, Foale MA Effect of late nitrogen application on growth and nitrogen balance of two cultivars of water-stressed grain sorghum. 687
Velasco L, Martin LM, De Haro A Within-plant variation for seed weight and seed quality traits in white lupin (*Lupinus albus* L.). 59
Villalobos FJ *See* Agüera F *et al.* 749
Virgona J *See* Peoples MB *et al.* 459
Wade CM *See* Baud S *et al.* 147, 285
Wallwork MAB, Logue SJ, MacLeod LC, Jenner CF Effects of a period of high temperature during grain filling on the grain growth characteristics and malting quality of three Australian malting barleys. 1287
Walsh K *See* Penrose LDJ *et al.* 853
Wang K *See* Wei Y *et al.* 867
Wann JM *See* Plummer JA *et al.* 99, 791

Warner RD *See* D'Souza DN *et al.* 1021
Wei Y, Bell RW, Yang Y, Ye Z, Wang K, Huang L Prognosis of boron deficiency in oilseed rape (*Brassica napus*) by plant analysis. 867
Weier KL Sugarcane fields: sources or sinks for greenhouse gas emissions? 1
Welch RJ *See* Faichney GJ *et al.* 107
Whiley AM *See* Smith MK *et al.* 1133
White SE *See* Blackmer AM *et al.* 555
Wilkinson D *See* Siddique KHM *et al.* 613
Williams IH *See* McNeill DM *et al.* 575
Wolfe EC *See* Dear BS *et al.* 41. *See* Peoples MB *et al.* 459
Wong PTW *See* Gardner PA *et al.* 1225
Wood M *See* Pilbeam CJ *et al.* 451
Woolaston RR *See* Eady SJ *et al.* 1201
Xu Y *See* Ding Z *et al.* 293
Yang HA, Sweetingham MW The taxonomy of *Colletotrichum* isolates associated with lupin anthracnose. 1213
Yang Y *See* Wei Y *et al.* 867
Ye Z *See* Wei Y *et al.* 867
Yonow T, Sutherst RW The geographical distribution of the Queensland fruit fly, *Bactrocera* (*Dacus*) *tryoni*, in relation to climate. 935
Young MJ *See* Benavides MV *et al.* 1195
Zegelin SJ *See* Smith CJ *et al.* 379
Zhang D *See* Balnave D *et al.* 1161
Zhou MX, Roberts GL, Robards K, Glennie-Holmes M, Helliwell S Effects of sowing date, nitrogen application, and sowing rate on oat quality. 845
Zhu C *See* McNeill AM *et al.* 427